

AUG 2 4 2015

A J OF OIL, GAS & MINING

DEPT OF NATURAL RESOURCES - OGM STEVE CHRISTENSEN 1594 W NORTH TEMPLE - STE 1210 SALT LAKE CITY UT 84114-1210

801-538-5350

Lab Number: 201504443 Sample Type: 04 Cost Code: 901B Description: BEAR CREEK 1 Collector: JCH Site ID: Source No: 00 | Organic Review: Sample Date: 07/09/2015 Time: 12:50 | Inorganic Review: 08/18/2015 Radiochemistry Review: Dis. Cations: 178 mg/l 11.5 me/l | Microbiology Review:
Dis. Anions: 486 mg/l 11.7 me/l |
Total Wt: 664 mg/l %D = .9 TEST RESULTS: Bicarbnate 242 mg/l
Carb. Diox 3 mg/l
Chloride 6.46 mg/l
D-Magnesum 80.6 mg/l
L-Sp. Cond 966 umhos
Manual pH * 8.218
Sulfate 361.0 mg/l
T-Aluminum 3430.4 ug/l
T-Boron 89.9 ug/l
T-Calcium 97.5 mg/l
T-Iron 4.61 mg/l
T-Magnesum 80.6 mg/l CO3 Solids 119 mg/l
Carbonate 0 mg/l
D-Calcium 97.5 mg/l
Hydroxide 0 mg/l CO3 SOLL
Carbonate
D-Calcium 97.5 mg/1
Hydroxide 0 mg/1
Lab-pH * 8.138
O&G 0 mg/1
27 mg/1 O&G 0 mg/l
T Vol Sol * 27 mg/l
T-Arsenic 1.376 ug/l
T-Cadmium 0.239 ug/l
T-Copper 4.392 ug/l
T-Lead 2.458 ug/l
T-Mangan 54.613 ug/l
T-Potassum 9.06 mg/l
T-Sodium 11.5 mg/l
T. Hardns. 574.9 mg/l
TDS @ 180C * 778 mg/l 4.61 mg/l 80.6 mg/l T-Magnesum T-Magnesum 80.6 mg/l
T-Molybdum 2.269 ug/l
T-Selenium 4.889 ug/l
T-Zinc 12.105 ug/l
T.Sus.Sol * 269.0 mg/l
Tot. Alk. * 198 mg/l QUALIFYING COMMENTS (*) on test results:

Manual pH.	Holding time was exceeded before sample delivery.
TDS @ 180C	Holding time was exceeded before sample delivery.
T.Sus.Sol.	Holding time was exceeded before sample delivery.
T Vol Sol.	Holding time was exceeded before sample delivery.
Tot. Alk	Holding time was exceeded before analysis was completed.
TDS @ 180C	Holding time was exceeded before analysis was completed.
T.Sus.Sol.	Holding time was exceeded before analysis was completed.
T Vol Sol.	Holding time was exceeded before analysis was completed.
Lab-pH	pH should be performed as a field test.
Tot. Alk	Sample received with insufficient holding-time remaining
	for analysis.

Trace levels up to 0.2 ppb metals may be present in bottles

END OF REPORT

DEPT OF NATURAL RESOURCES - OGM STEVE CHRISTENSEN 1594 W NORTH TEMPLE - STE 1210 SALT LAKE CITY UT 84114-1210

801-538-5350

Lab Number: Description: Collector:	BEAR CREEK JCH		Le Type: 04	1			(Cost	Code:	901
Site ID: Sample Date:		Time:	No: 00 12:35	1	Organio Inorgan Radioch	nic Re	view:		08/18	/201!
Dis. Cations: Dis. Anions: Total Wt:		/1 /1	11.1 $me/1$		Microbi		_			
TEST RESULTS:	:									
Bicarbnate Carb. Diox Chloride D-Magnesum L-Sp. Cond Manual pH * Sulfate T-Aluminum T-Boron T-Calcium T-Iron T-Magnesum T-Molybdum T-Selenium	204 1 6.39 78.3 950 8.223 367.0 2799.2 88.7 92.9 3.59 78.3 2.595 4.655	mg/l mg/l mg/l umhos mg/l ug/l ug/l mg/l mg/l mg/l ug/l		Can D-0 Hy0 T T-1 T-0 T-1 T-P	Solids rbonate Calcium droxide Lab-pH O&G Vol Sol Arsenic Cadmium -Copper T-Lead -Mangan otassum	*	8.39 0	mg/: mg/: mg/: mg/: ug/: ug/: ug/: ug/:	L L L L L L L L L L L	
T-Zinc T.Sus.Sol * Tot. Alk. *		ug/l mg/l		T. :	Hardns. @ 180C	*	554.0		L	

```
Manual pH. Holding time was exceeded before sample delivery.

TDS @ 180C Holding time was exceeded before sample delivery.

T.Sus.Sol. Holding time was exceeded before sample delivery.

T Vol Sol. Holding time was exceeded before sample delivery.

Tot. Alk.. Holding time was exceeded before analysis was completed.

TDS @ 180C Holding time was exceeded before analysis was completed.

T.Sus.Sol. Holding time was exceeded before analysis was completed.

T Vol Sol. Holding time was exceeded before analysis was completed.

T Vol Sol. Holding time was exceeded before analysis was completed.

Lab-pH.... pH should be performed as a field test.

Tot. Alk.. Sample received with insufficient holding-time remaining for analysis.
```

Trace levels up to 0.2 ppb metals may be present in bottles

END OF REPORT

SAMPLE SUMMARY REPORT

Client:

ALS Environmental

Project:

Analyses

1520831

Sample ID:

Bear Creek

Legal Location:

Collection Date: 7/9/2015 12:30

Date: 30-Jul-15

Work Order: 1507505

Lab ID: 1507505-1

Matrix: WATER

Percent Moisture:

Report Result

Qual

Limit Units

Dilution Factor

Date Analyzed

Hexane Extractable Material--Gravimetric

EPA1664

Prep Date: 7/30/2015

PrepBy: BCH

OIL AND GREASE

ND

6.1 MG/L

1

7/30/2015

ALS Environmental -- FC

LIMS Version: 6.777

AR Page 1 of 2 8 of 10

SAMPLE SUMMARY REPORT

Client:

ALS Environmental

Project:

1520831

Sample ID:

Left Fork

Legal Location:

Collection Date: 7/9/2015 12:35

Date: 30-Jul-15

Work Order: 1507505

Lab ID: 1507505-2

Matrix: WATER

Percent Moisture:

Report Dilution Result Date Analyzed **Analyses** Limit Units Qual Factor

Hexane Extractable Material--Gravimetric OIL AND GREASE

ND

EPA1664

Prep Date: 7/30/2015

PrepBy: BCH

6.8 MG/L

7/30/2015

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

- Y1 Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- * Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.
- D DER is greater than Control Limit
- M Requested MDC not met.
- LT Result is less than requested MDC but greater than achieved MDC.

- M3 The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L LCS Recovery below lower control limit.
- H LCS Recovery above upper control limit.
- P LCS, Matrix Spike Recovery within control limits.
- N Matrix Spike Recovery outside control limits
- NC Not Calculated for duplicate results less than 5 times MDC
- B Analyte concentration greater than MDC.
- B3 Analyte concentration greater than MDC but less than Requested

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

- E The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M Duplicate injection precision was not met.
- N Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- $\ensuremath{\mathsf{E}}$ Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

LIMS Version: 6.777

Client:

ALS Environmental

Work Order:

1507505

Project:

1520831

Date: 7/30/2015 4:14:

QC BATCH REPORT

Batch ID: E	X150730-1-1	Instrument ID: Ba	lance		Method:	EPA1664						
LCS	Sample ID: EX150730-1					Jnits: MG/L		Analys	is Date:	7/30/20	15	
Client ID:		Run II	D: EX150730 -	1A1				Prep Date: 7/30	/2015	DF	: 1	
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
OIL AND GRE	EASE	37.1	5	40		93	78-114				18	
LCSD	Sample ID: EX150730-1				l	Jnits: MG/L		Analysi	s Date:	7/30/20 ⁻	15	
Client ID:		Run II	D: EX150730 -	1 A 1			İ	Prep Date: 7/30	/2015	DF	: 1	
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
OIL AND GRE	EASE	36,9	5	40		92	78-114		37.1	1	18	
MB	Sample ID: EX150730-1					Jnits: MG/L		Analysi	s Date:	7/30/201	15	
Client ID:		Run I	D: EX150730-	1A1			1	Prep Date: 7/30	/2015	DF	1	
Analyte /		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
OIL AND GRE	EASE	ND	5									
The follow	ing samples were analyze	ed in this batch:	15075	505-1	15075	505-2						



CHAIN OF CUSTODY

152083

Shipped Samples Cooler Returned

Hand Delivered

Bureau of Chemical and Environmental Services 4431 S 2700 W Taylorsville, UT 84119-8600 Fax 801 965 2400 http://health.utah.gov/lab/chemistry

System/Agency Name:	System/Agency Number:	Cost/Project Code:	REQUESTED TESTS	Received Date and Time:	Time:
REPORTING/CONTACT Atta: Kyle Ashby Address: 4431 S 2700 W City, State, Zip: Taylorsville, Utah, 84129 Phone: 801-965-2400 Fax: 801-969-3238 Email: kdashby@utah.gov	Special Code: Atta: Address: City, State, Zip: Phone: Fax:	if different)	Oil and Grease	einperature Hq tq	Sample Receipt Conditions
COLLECTION POINT DESCRIPTION	Collectors Collection Date Collection Time Initials (mm/dd/yy) (24 br)	Time COMMENTS		lecesi iecesi	Custody Seals Intact LAB NUMBER
Left Fork Star Criek			X		201504443
Bear Crook Laft For L			X		201504444
Dispatched By:	Date and Time:	Courier Company Name:	pany Name:	Invoice/Airbill #:	

Date and Tipe 7/23/2015

Date and Time

Received at USL:PH by:

Date and Time:/

Date and Time:

Relinquished to USL:PH by

Relinquished By:

				Y-RELATED ER INFORMA					083
Client Nam	e: Unified	Shite	uborgh	ones Publ.	C Heile	t/Task/Site:	.3:	il and bles	50
Date/Time							rs Received:		
Condition o		Preser	table/Unacc	A	Tempe	rature Cont on Temp Ta	trol; aken;	Present/No line	
Container C	Custody Seals;	Present Intact/ Cea/N	Broken/IA at/Ab2ent/NA Broken/NA o/NA u/Melted/NA)	project	temperatur specific gu Headspace I	iidelines?	Yes/No/NA Yes/No/MA	9
pH Check Performed: Residual Chlorine	Metals Cyanide Sulfide Ammonia	Yes Yes Yes	/No/NA /No/NA /No/NA /No/NA /No/NA /No/NA	Total Pheno TPH – 418.1 COD TKN 8310 8151		Yes/No/NA Yes/No/NA Yes/No/NA Yes/No/NA	A Oil & C A Total P TOC P Gross A A 8330		Yes/No/NA Yes/No/NA Yes/No/NA Yes/No/NA Yes/No/NA
Check Performed:	5001	103	MOMA	9131		Yes/No/NA	1		
Cooler Received	ALS Cooler No.	Temp.	Cooler Received	ALS Coo	ler No.	Temp.	Cooler Received	ALSL Cooler No.	Temp.
2	C15 C15	°C	5	C15	-	°C	7	C15	°C
3	C15	°C	6	C15		°C	9	C15	°C
Taken By:	050	Signanu		5		HOW15 Printed	(91150) Name	n 07	123/2014 Date
		1		T-RELATE	D INFOR	MATION			
Missing Cooler C Missing Missing Missing Labels	onditions	☐ Brol	sing Sample ken/Leaking rrect Bottle ler Tempera ange	Samples Type	□ pH C	riteria Not lual Chlorin Space in B	Met ne Present	☐ Insufficient Sa Volume ☐ Chain of Custo Problems ☐ Other:	
Clien	scribe the Probi	Voled	e Fa		- "	9 . 2	2: To		1
Sample	s are in	1000	IML C	1897 6	9 1955	Conta	ine/s	141	
E-mailed to	Client? YES		No 🗆				91		
l e	**	8		Required	Within	24 Hour	S		
	1	14.9		OJECT MA					
PROJECT M	IANAGER COMM	ENTS:	1				-		
î =9				W W		2	9	181	=
ALS Project M		Printed Name	Retu	imed to Sampl	e Receipt b	y:	Signature	Date:	
CRIR.dot							2145.0000	Re	vised 1/1/15



Chemical and Environmental Services

Utah Public Health Laboratory

CHAIN OF CUSTODY

System/Agency Number: Coss/Pr NT1177 90 BILLING (list if diff Address: y, State, Zip: Phone: Fax: Collection Date Collection Time (mm/dd/yy) 7 /9 / 15 12:50 pm T /9 / 15 12:35 pm	Invoice/Airbill #: Date and Time: Date und Time:	!
System/Agency Number: Cosufty NT1177 90 BILLING (list if diff Address: y, State, Zip: Phone: Fax: Collection Date Collection Time Infinite Infinite Address: Ad	Received by: Received at USL: BH by: A Kathart require but the form of the f	ed Amenda
	5 12:12 PM	of widne bandenaired
4431 S 2700 W Taylorsville, UT 84129-8600 801 965 2400 Fax 801 969 3238 http://health.utah.gov/lab/chemistry System/Agency Name: Olvision & Oli Cas & Mining REPORTING/CONTACT Aun: Address: Croy, State, Zip: Frant: Submitted By: Collection point description Collectio	Retinquished By: Retinquished by: Retinquished to USIN HI MIN HIM MANN Some	

JUST THE STREAM PARAMETERS

Table 2:	Water	Quality	Statistics	by 1	Гуре
----------	-------	---------	------------	------	------

Table 2:	Water Quality Statistics by T	ype							UPDES W	fater Quality S	standard	
145											Aqu	atic
Туре	Parameter		Minimum	Maximum	Moan	Count of Detects	Count of Non-	Domestic	Rec &	Agriculture	3A Chronic	3-A Acute
	Potassium	mg/l	0,1	36.83	6.93		11					
	Sodium	mo/l	233	670.68	38.24	248	2					(Y)
	Bicarbonate(HCO3-)	mg/l	174	677	. 314.73	94	0		(A.			
	Carbonate (CO3-2)	mg/l	0	20	8,14	35.	59					
	Chlorido .	mg/l	2	1389	46.21	258	0					
	Sulfate	mg/I	4	6000	465.77	245	0					
	Aluminum, Dissolved	mg/l	n/a	n/a	n/a	0	87		- CONTRACTOR		0.087	0.75
	Arsenic, Dissolved	mg/l	n/a	n/s	n/a	0	87	0.01		0.1	0.15	0.34
	Boron, Dissolved	mg/l	0.01	0.48	0.08	64	8			17		
	Cadmium, Dissolved	Ing/I	o/a	n/a	n/a	0	86	0.01		0.01	0.00025	0.002
-	Copper, Dissolved	lmg/l	0.01	0,01	0.01	1	88			0.2	0.009	0.013
Stream	Iron, Dissolved	mg/ī	0.05	0.44	0.09	14	237	Auror				Charles
<u> </u>	Iron, Total	mg/l	0.05	115.43	5.13	220	37					
	Lead , Dissolved	mg/l	nva	n/a	n/a	0	88	0.015		0.1	0.0025	0.085
	Manganese, Dissolved	Ngm	0.002	0,121	0.02	70	181			1		
	Manganese, Yotal	mg/i	0.002	2.819	0.12	198	58	2=4				
	Molybdenum, Dissolved	mg/f	0.023	0.04	0.03	3	69					
	Selenium, Dissolved	mg/l	0.01	0.02	0.02	2	75	0.05		0.05	0.0048	0.015
	Zinc, Dissolved	mg/l	0.004	2.056	0.10	30	57					
	Nitrate	mg/l	0.01	7	0.49	51	55		-4	4		
	Nitrito	mg/l	0	4.03	0.30	15	90				ŭ	
	Nitrogen (Ammonia)	mg/i	.0		0.29		84					
	Phosphate	mg/i	0	0.08	0.02	11	51		0.05	0.05	(
	Flow	gpm	0	1783	348,59	17	0				*	<u></u>
Well	Water Level	feet	19	1783.3	1256.25	107	0					
	Yemp	Deg. C	9	9	9.00	1	Ö				27	

Source: Rule R317-2 Sundants of Quality for History of the State, http://www.nets.uch.gov/p.cetactoxxx13132-117-002/cox116 Face Manif Statistics given for a traditions of folding f

CHS - Cat: Lase

(St) The one have average concernation of total amounts nitrigen filt degit as Alf diven not extend, more than once every time years on the average the acute exterior calculated

Egil as N (Acurd + (0.275(1+10.^{2,56,56} y + (0.8.01 + 10.^{57,56}))

Ons IR IC ID

091 25 H (Acard + 0 411)(1 + 10 2 may 1) + (58 6) 1 + 10 m 1 m ()

Metels ra 25 tol.

201504443

201504444

JOHN THE STREEPIN PARCHINETERS

INCORPORATED SEP 0 8 2010 Div. of Oil, Gas & Mining

^{*}Colicium combines Total Culcium (mg/T and Calcium Dissolved (mg/l)* \$4 50~ 126.

Spillers combines Taint Subset proff" and "Striken Distallent page"

Magnesium contibes "Leaf Magnesium (cg/f" and "Magnesium Desolved (cg/f)"

Polassium continus "Tatal Palesium (regill" una Palesium Discoved (regill" Missale combines 'MOZ-MOU AS A paggo and "MIDRATE AS M paggo"

STATE WASTER

											Agu	atic
Тура	Pärameter .	Units	Minimum	Maximum	Mean	Count of Detects	Count of 'Non- Detects'	Domestic :	Rec & Aesth	Agriculture	3A Chronic	3-A Acut
	Flow	gpm	0	580	18,30	558	8					
	Water Level	lfeet	8.2	8.2	8.20	1	0					
	рн	IS.U.	2.83	9.18	7.64	593	0	8,5-9,0	8,5-9,0	8.5-9.0		
	Specific Conductivity	umhos/cm	2.2	2890	742	608	0					111-113
	Temp	Deg, C	1,4	67	11,1	598	0			1	27	
	Dissolved Oxygen	mc/l	5.1	10	7.6	- 11	1				>6.5	>5
	Specific Conductivity	umhas/cm	350	2700	952	380	0					
	Total Dissolved Solids	mg/l	149	2940	853	389	1			1200		
	Total Hardness (as CaCO3)	Img/l	143	1436	518.28	399	0					
	Total Settleable Solids	mg/l	0	2	0,40	5	9	, 500				
	Total Suspended Solids	mg/l	8	69	24.78	9	5	- 12				
	Oil and Grease	(mg/l	0	2.1	0.96	9	99					
	Calcium	mg/l	8.36	176	90,37	395	0			1	- 2	
	Magnesium	mg/l	0.006	253	70,32	399	3					
	Potassium	mg/l	0	89.7	8,54	321	68					
	Sodium	lmg/l	1,86	88	13.85	382	- 6					
	Bicarbonate(HCO3-)	lmg/l	212	660	363.76	185	0					
	Carbonate (CO3-2)	mg/l	0	10	4,46	13	171					
Spring	Chloride	mg/l	1	66	9.82	397	0					
	Sulfate	mg/l	2	1158	222.89	389	0		,====			
	Aluminum, Dissofved	mg/l	n/a	n/a	n/a	0	180					
	Arsenic, Dissolved	mg/l	0	0.015	0.01	3	188				0.087	0.75
	Boron, Dissolved	mg/l :	0.01	0.9	0,10	157	28	0.01		0.1	0.15	0.34
	Cadmium, Dissolved	mg/l	0.01	0,01	0.01	1	188					
	Copper, Dissolved	mg/l	0.01	0.44	0.16	3	188	0.01		0.01	0.00025	0.00
	Iron, Dissolved	mg/l	0.05	0.54	0.18	10	375			0.2	0.009	0.01
	Iron, Total	mg/l	0	38.5	0.79	142	255					
	Lead , Dissolved	mg/l	0,02	0.2	0.11	2	207					
1	Manganese, Dissolved	mg/l	0.002	0.1	0.02	62	318	0.015		0,1	0.0025	0,06
	Manganese, Total	mg/l	0	1.41	0.03	134	260		-			
3	Molybdenum, Dissolved	mg/l	0.005	0.2	0.06	5	183					111111111111111111111111111111111111111
	Selenium, Dissolved	mg/l	0.009	0.04	0.02	18	160	0.05		0.05	0.0048	0,015
	Zinc, Dissolved	mg/l	0.004	3.46	0.08	61	137					
	Nitrate	mg/l	0.01	2.54	0.35	175	39		4	4		
1	Nitrite	mg/l	0	0.1	0.04	14	198					
1	Nitrogen (Ammonia)	mg/l	O	0.4	0.16	28	177					
	Phosphate	mg/l	0	0.12	0.02	38	80		0,05	0.05		
	Flow	gpm	0	800	61,56	400	6					Ü.,
	pH	S.U.	5.6	9.9	8.22	353	0	6.5-9.0	8.5-9.0	6.5-9.0		
	Specific Conductivity	umhos/cm	7.8	8350	1024,29	381	0					
	Temp	Deg. C	0.5	80.6	14.56	370	0		,		27	
	Dissolved Oxygen -	mg/l	0.4	70	8.42	297	Ō				>8.5	>5, 3
	Specific Conductivity	umhos/cm	302	6730	1301.43	239	-1.					
beam		mg/l	163	6181	990.77	247	0			1200		
سرز		mg/l	184	3898	699.53	256				-		
	Total Settleable Solids	mg/l	0	72	8.55	46	147					-
	Total Suspended Solids	mg/l	0	9580	524.46	155	41					
	Oil and Grease	rng/l	o	33	7.95	15	161					
1	Calcium	ma/l	8.3	494	101,62	258	0					
	Magnesium	mo/l	12	647	108,11	257	0					

JUST THE STRUMM PARAMETERS

201504443

201504444

SEP 0 8 2010
Div. of Oil, Gas & Mining



Ft. Collins, Colorado

LIMS Version: 6.777

Page 1 of 1

Thursday, July 30, 2015

Kevin Griffiths ALS Environmental 960 West LeVoy Drive Salt Lake City, UT 84123

Re: ALS Workorder: 1507505

Project Name:

Project Number: 1520831

Dear Mr. Griffiths:

Two water samples were received from ALS Environmental, on 7/29/2015. The samples were scheduled for the following analysis:

Hexane Extractable Material

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental

Jeff R. Kujawa Project Manager ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environme	ental – Fort Collins
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1507505

Oil and Grease:

The samples were prepared and analyzed according to EPA Method 1664A procedures utilizing the current revision of SOP 671.

All acceptance criteria were met.

Sample Number(s) Cross-Reference Table

OrderNum: 1507505

Client Name: ALS Environmental

Client Project Name:

Client Project Number: 1520831 Client PO Number: 1520831

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Bear Creek	1507505-1		WATER	09-Jul-15	12:30
Left Fork	1507505-2		WATER	09-Jul-15	12:35

Date Printed: Thursday, July 30, 2015

ALS Environmental CHAIN-OF-CUSTODY

	(S)			ALS EE	ALS Environmental CHAIN-OF-CUSTODY			(507505)	10
Pro	Project / Job / Task:		Split:	Workor	Workorder ID: 1520831	Level: ENV_LVL2	2	Requested Analysis	
2	Client: Al S Environmental SLC	nental SLC			Account: 8001	Type: 1000AG			
2	Commente.					Preservatives			_
5						нсг	Þ991 A⊲		
		2)				Containers			
	Collect	Sample ID	LabiD	ဗ	Matrix	ID(s)	Count		
_	_	Bear Creek	1520831001		Water	A	- A		П
. ~			1520831002		Water	A	1 A		
m	2								
4									
rU									
ဖ							1		T
_									
80									T
6							-		
9									7

				SAMPLE PRE	PARATION / AN	SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY	USTODY
		TOTO TO MANO 1		Sample Prep / Analysis for:		Lab Notebook No.:	
ORIGIN	AL FIELD SAM	ORIGINAL FIELD SAMPLE CHAIN-UF-CUS LODE		Prepared / Analyzed by:		Date / Time:	
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location	Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Reason for Transfer / Storage Location
Warath, Julie	07/23/2015 16:17	ALS Sample Receiving	Sample Login			\$	
Sance	OTIMIS ILIO FED EX	Fed Ex	XIPER FICUITION	Fed Cix	7/24/15 0925 Eve	25 Evertette	
Feder							
						**	
5							
of 1							
10							



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

Client: ALS SLC Workorder No: 150750	5	_
Project Manager: JPK Initials: ECP Date:	7/29/	15
Does this project require any special handling in addition to standard ALS procedures?	YES	(NO)
Are custody seals on shipping containers intact?	YES	NO
Are Custody seals on sample containers intact?	YES	NO
Is there a COC (Chain-of-Custody) present or other representative documents?	YES	NO
Are the COC and bottle labels complete and legible?	YES	NO
Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	YES	NO
Were airbills / shipping documents present and/or removable?	YES	NO
Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles) N/A	YES	NO
Are all aqueous non-preserved samples pH 4-9?	YES	NO
10. Is there sufficient sample for the requested analyses?	YES	NO
II. Were all samples placed in the proper containers for the requested analyses?	YES	NO
Are all samples within holding times for the requested analyses?	YES	NO
Were all sample containers received intact? (not broken or leaking, etc.)	(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: < green pea > green pea	YES	NO
15. Do any water samples contain sediment? Amount Amount N/A Amount N/A	YES	NO
16. Were the samples shipped on ice?	YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4 ONLY	YES	NO
Cooler #: Temperature (°C): 4.8° No. of custody seals on cooler: Dot Survey Acceptance Information External µR/hr reading: 1 Background µR/hr reading: 12 Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (VES) NO / NA (If no, see Form 008.) Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 / No. 10 No.) AND #16.	
If applicable, was the client contacted? YES / NO (N) Contact: Project Manager Signature / Date: 18 Gun #2: Oakton SN 29922500201-0066	lime:	

Form 201r24 xls (06/04/2012)

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Page 1 of

Do Not Lift Using This Tag

ORIGIN ID:NPHA (801) 266-7700 SHIPPING/RECEIVING ALS LABORATORY 960 LEVOY

SHIP DATE: 27JUL15 ACTWGT: 34.0 LB MAN CAD: 192107/CAFE2807

BILL SENDER

SALT LAKE CITY, UT 84123 UNITED STATES US

TO SAMPLE RECEIVING



FORT COLLINS CO 80524
(780) 830 - 7726
DEPT: 6ALT LAKE SHIPPING



FedEx

PRIORITY OVERNIGHT

7 of 10